JC10 Rec'd PCT/PTO 18 APR 2005

FORM PTO-1390 (REV 1-2003) U.S. Department of Commerce Patent and Trademark Office

ATTORNEY'S DOCKET NUMBER

CR00570P

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		DESIGNATED/ELECTED OF		LICATION NO. (if known, see 37 CFR 1.5)									
		CONCERNING A FILING UN	10/	/5317 85									
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DAT													
	11.411		INTERNATIONAL FILING DATE		PRIORITY DATE CLAIMED								
TIT	T F C	PCT/EP2003/050767 DF INVENTION:	OCTOBER 30, 2003		OCTOBER 31, 2002								
CHANNEL ESTIMATION USING THE GUARD INTERVAL OF A MULTICARRIER SIGNAL													
APPLICANT(S) FOR DO/EO/US MARKUS MUCK													
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:													
1.	X	This is a FIRST submission of items concerni											
2.		This is a SECOND or SUBSEQUENT submi											
3.	X												
4.	\Box	items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31).											
5.	X	A copy of the International Application as file	d (35 U.S.C. 371(c)(2))										
		a. is attached hereto (required only if not communicated by the International Bureau).											
		b. X has been communicated by the International Bureau.											
		c. is not required, as the application was filed in the United States Receiving Office (RO/US).											
6.	X												
		a. is attached hereto.											
		b. X has been previously submitted under	er 35 U.S.C. 154(d)(4).										
7.		Amendments to the claims of the International	Application under PCT Article 19 (35 U.	S.C. 371(c)(3)).								
		a. are attached hereto (required only if not communicated by the International Bureau).											
		b. have been communicated by the lin	ternational Bureau.										
		c. have not been made; however, the time limit for making such amendments has NOT expired.											
		d. X have not been made and will not be	made.	•									
8.		An English language translation of the amenda	nents to the claims under PCT Article 19	(35 U.S.C. 3	71(c)(3)).								
9.	X												
10.		An English language translation of the annexes to the International Preliminary Examination Report under PCT											
		Anicle 36 (35 U.S.C. 371(c)(5)).											
lten	ns 11 1	to 20 below concern other document(s) or inf	ormation included:										
11.	X	An Information Disclosure Statement under 37	7 CFR 1.97 and 1.98.										
12.	X	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.											
13.	X	A preliminary amendment.											
14.	X	An Application Data Sheet under 37 CFR 1.76.											
15.		A substitute specification.											
16.		A power of attorney and/or change of address letter.											
17.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.											
18.		A second copy of the published International Application under 35 U.S.C. 154(d)(4).											
19.		A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).											
20.		Other items or information:											

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December Fig. Fig	U.S. Appar	in Fo. Zif ki	ng An Ost 37 CFR	Attorney Docket Number								
The following fees have been submitted: 21. See Examination fee South			, 0,									
21.	The follow	ing fees have	been submitted:		L3 2003/030707	CALCULATIONS	PTO LISE ONLY					
If International preliminary examination report persured by USPTO and all claims saistly provisions of PCT Antic 33(1)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)	21. 🛭 Basic	national fee			\$300		110 USE ONE					
An Anticle 33(1)-(4) An other shinations												
All other shustations	If International pre	liminary examin	ation report prepared by									
Search fee (37 CFR 1.445(1)?) has been paid on the international application to the USFTO as an International Searching Authority	All other situations	······································	•••••	\$100.00								
International Searching Authority			-		-							
International Search Report prepared and provided to the Office	Search fee (37 C	FR 1.445(a)(2)) has been paid on the									
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program) listing filed in an electronic medium). The fee is \$250 for each additional \$0 sheets (excluding sequence listing or computer program) listing filed in an electronic medium). The fee is \$250 for each additional \$0 sheets (excluding sequence) listing or computer program) listing filed in an electronic medium). The fee is \$250 for each additional \$0 sheets (excluding sequence) listing filed in an electronic medium). The fee is \$250 for fraction thereof (round up to a whole number) \$200 \$250	Internationa	al Searching A	uthority									
TOTAL OF 21.22 AND 23=	All other situation	ncn Kepon pre	epared and provided	\$100.00								
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing for computer program listing filed in an electronic medium). The fee is \$250 for each additional \$0 sheets of paper of fraction thereof. 100			Т	S								
Cach additional 50 sheets of paper or fraction thereof.			cation and drawings:									
Total Sheets Extra Sheets Number of each additional \$0 or fraction thereof (round up to a whole number) x \$250 S Surcharge of \$130.00 for furnishing the eash or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). x \$250 S Surcharge of \$130.00 for furnishing the eash or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). x \$50.00 S Independent Claims 3 =	sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for											
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Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). TOTAL OF ABOVE CALCULATIONS = SUBTOTAL = SUBTO	-100=	730 =				\ <u></u>						
Claims Number Filed Number Extra Rate	Surcharge of \$13	0.00 for furnis	shing the oath or dec									
Total Claims							<u> </u>					
Independent Claims 3 = x \$200.00 S MULTIPLE DEPENDENT CLAIM(s) (if applicable) + \$360.00 S TOTAL OF ABOVE CALCULATIONS = S Applicant claims small emity status. See 37 CFR 1.27. Fees above are reduced by ½. SUBTOTAL = S Processing fee of \$130.00 for furnishing the English translation later than 30 months from the carliest claimed priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = S Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31), \$40.00 per property TOTAL FEES ENCLOSED = S Amount to be refunded: S Amount to be Charged: S Amount to be Charged: S Amount to be Charged: S A check in the amount of \$\sum_{\text{to CNP}}\$ to cover the above fees is enclosed. Description of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. \$02117. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. \$02117. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. \$02117. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit and information should not be included on this form. Provide credit card information any authorization on PTO - 2038. Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the international application to pending status. Send all correspondence to: Brian M. Mancini Autorney for Applicant(s) Reg. No.: 39.288 Telephone: 847-576-3992 Fee Provided: \$2.487.576-3992 Fee Provided: \$2.487.576-3992 Fee for recording the enclosed account Nation		Nu	imber Filed	Number Extra	Rate							
MULTIPLE DEPENDENT CLAIM(s) (if applicable)	Total Claims		- 20 =		x \$50.00	S						
TOTAL OF ABOVE CALCULATIONS = \$ Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. SUBTOTAL = \$ Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = \$ Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28.3.31). \$40.00 per property TOTAL FEES ENCLOSED = \$ Amount to be refunded: \$ Amount to be Charged: \$ C. \(\text{\tex					x \$200.00	S						
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a. A check in the amount of \$					· .	•	\$ ·					
a. A check in the amount of S to cover the above fees is enclosed. b. Please charge my Deposit Account No.502117 in the amount of S to cover the above fees. A duplicate copy of this sheet is enclosed. c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 502117. A duplicate copy of this sheet is enclosed. d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information any authorization on PTO - 2038. Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the international application to pending status. Send all correspondence to: Brian M. Mancini Attorney for Applicant(s) Intellectual Property Department Reg. No.: 39.288 1303 E. Algonquin Road Telephone: 847-576-3992 IL01-3rd Floor Fax No.: 847-576-3750		α,										
b. X Please charge my Deposit Account No. 502117 in the amount of S to cover the above fees. A duplicate copy of this sheet is enclosed. C. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 502117. A duplicate copy of this sheet is enclosed. d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information any authorization on PTO – 2038. Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the international application to pending status. Send all correspondence to:	a. A che	ck in the amou	int of S	to cover the above	fees is enclosed	Charged:	1.3					
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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:

MOTOROLA, INC INT'L APPLICATION NO:

PCT/EP2003/050767

CASE NO.:

CR00570P

INT'L FILE DATE:

OCTOBER 30, 2003

ENTITLED:

CHANNEL ESTIMATION USING THE GUARD INTERVAL OF A

MULTICARRIER SIGNAL

Motorola, Inc. Corporate Offices 1303 E. Algonquin Road Schaumburg, Illinois 60196 April 18, 2005

CERTIFICATE OF EXPRESS MAILING / FILING UNDER 35 U.S.C. 371

BOX PCT COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22213-1450

Sir:

l certify that the above-referenced FILING UNDER 35 U.S.C. 371 was deposited. postage prepaid, as Express Mail having the mailing label number written below with the United States Postal Service addressed to:

> **BOX PCT COMMISSIONER FOR PATENTS** P.O. Box 1450 Alexandria, VA 22213-1450

on April 18, 2005

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